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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:
Listing of Claims:

 (Previously Presented) An ionic conductor comprising:

a porous body which has a plurality of continuous pores passing through said porous body;

ionizable functional groups attached to surfaces of said continuous pores; and

hydrophobic groups attached to the surfaces of said continuous pores, wherein said ionic conductor is a diaphragm.

- 2. (Previously Presented) An ionic conductor according to claim 1, wherein said porous body comprises a porous ceramic.
- 3. (Previously Presented) An ionic conductor according to claim 2, wherein said porous ceramic comprises a porous glass, a porous alumina, or a porous mullite.
- 4. (Original) An ionic conductor according to claim 1, wherein an average diameter of said continuous pores is in the range of 1 nm to 1 μ m, and a porosity of said porous body is in the range of 5 to 90 %.

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- 5. (Cancelled)
- 6. (Previously Presented) An ionic conductor according to claim 1, wherein said hydrophobic groups are alkyl groups or fluorocarbon functional groups.
- 7. (Previously Presented) An ionic conductor according to claim 1, wherein said porous body has a plate shape, a pipe shape, or a honeycomb shape.
- 8. (Withdrawn) A method of producing an ionic conductor, said method comprising:

preparing a porous body which has a plurality of continuous pores passing through said porous body; and

attaching ionizable functional groups to active groups being present on surfaces of said continuous pores by a covalent bond or a hydrogen bond.

9. (Withdrawn) A method of producing an ionic conductor, said method comprising:

preparing a porous body which has a plurality of continuous pores passing through said porous body;

bonding hydrophobic groups to active groups being present on surfaces of said continuous pores; and

attaching one of anionic surface active agents, cationic surface active agents, and amphoteric surface active

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agents, each of which has ionizable functional groups and one of alkyl groups and fluorocarbon functional groups, to said hydrophobic groups.

Claims 10 - 12. (Cancelled)

- 13. (Previously Presented) An ionic conductor according to claim 1, further comprising surface active agents having said ionizable functional groups and attached to said hydrophobic groups.
- 14. (Previously Presented) An ionic conductor according to claim 4, wherein the average diameter of said continuous pores is in the range of 4 nm to 50 nm.
- 15. (New) An ionic conductor according to claim 1, wherein said plurality of continuous pores extend from a surface to an opposite surface.
- 16. (New) An ionic conductor according to claim 1, wherein said ionizable functional groups are $-SO_3^-$.
- 17. (New) An ionic conductor according to claim 1, wherein said ionizable functional groups are $-N^+(CH_3)_3$.